

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Mark D. Purgett, David C. May, Mark D. Zender, Daniel  
J. Willie and Thomas R. Borden

Serial No.:  
Filed: October 27, 2000  
For: LIQUID PAVEMENT MARKING  
COMPOSITIONS

Group Art Unit:

Examiner:

3/b  
D.C.  
2-801

Assistant Commissioner for Patents  
Washington D.C. 20231

PRELIMINARY AMENDMENT

Dear Sir:

On p. 1, line 6 please amend the specification as follows:

This application is a continuation of U.S. Patent Application 09/096,923 filed June 12, 1998 that claims the benefit of U.S. Provisional Application No. 60/049,572, filed June 13, 1997.

Please cancel claims 1-36 and add claims 37-46 as follows:

1 37. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

Certificate of Mailing

Pursuant to 37 CFR 1.8 I certify that this correspondence is being deposited on the date indicated below with the United States Postal Service as First Class Mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

Date:

October 27, 2000

Signature

Colleen M. Wagner  
Colleen M. Wagner

wherein the coating composition has a minimum application temperature of at least about 7°C.

2238. A pavement marking comprising:  
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:  
one or more aliphatic secondary amines;  
one or more polyisocyanates;  
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and  
reflective elements;  
wherein the coating composition has a track time of no greater than about 5 minutes.

3 336. A pavement marking comprising:  
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:  
one or more aliphatic secondary amines;  
one or more polyisocyanates;  
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and  
reflective elements;  
wherein the pavement marking has an open time of at least 30 seconds and a retained reflectivity of at least 100 mcd/m<sup>2</sup>/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

4 446. A pavement marking comprising:  
a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:  
one or more aliphatic secondary amines;  
one or more polyisocyanates;  
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has an open time of at least 30 seconds and a minimum application temperature of at least about 7°C.

5-5  
B1, cont, sub, C2  
41. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has an open time of at least 30 seconds and a track time of no greater than about 5 minutes.

6 6  
42. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has a minimum application temperature of at least about 7°C and a retained reflectivity of at least 100 mcd/m<sup>2</sup>/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

7 7  
43. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines;

one or more polyisocyanates;

Sub C3 cont.  
B1 cont.  
8 8 44.  
material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and reflective elements;

wherein the coating has a track time of no greater than about 5 minutes and a retained reflectivity of at least 100 mcd/m<sup>2</sup>/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

44. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising:

one or more aliphatic secondary amines comprising an aspartic ester amine;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein a retained reflectivity of at least 100 mcd/m<sup>2</sup>/lux after at least 2 years in use as longitudinal traffic markings as measured according to ASTM E 1710-95.

9 45. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising

one or more aliphatic secondary amines comprising an aspartic ester amine;

one or more polyisocyanates;

material selected from the group consisting of fillers, extenders, pigments, and combinations thereof; and

reflective elements;

wherein the coating has a minimum application temperature of at least about 7°C.

10 46. A pavement marking comprising:

a binder having polyurea groups, wherein the binder is prepared from a coating composition comprising

one or more aliphatic secondary amines comprising an aspartic ester amine;

Sub  
B1 24  
cont

one or more polyisocyanates;  
material selected from the group consisting of fillers, extenders, pigments, and  
combinations thereof; and  
reflective elements;

wherein the coating has a track time of no greater than about 5 minutes.

Respectfully submitted,

|                     |                  |
|---------------------|------------------|
| Registration Number | Telephone Number |
| 39,091              | (651) 575-3915   |
| Date                |                  |
| October 27, 2000    |                  |

|                           |
|---------------------------|
| Signature                 |
| <i>Carolyn A. Fischer</i> |
| Printed Name              |
| Carolyn A. Fischer        |

Office of Intellectual Property Counsel  
3M Innovative Properties Company  
P.O. Box 33427  
St. Paul, Minnesota 55133-3427

002207 5528360